

Foreign Patents

JP 7265093 : Japanese Encephalitis virus antigenic E protein - produced in mammalian cells, useful as a vaccine or for diagnosis of JEV

, Tokyo To Shinkei Kagaku Sogo Kenkyusho, October 1995

A novel process for producing an antigenic protein on the surface of Japanese encephalitis virus, comprises introducing into mammalian cells, pref. CHO, COS or Vero cells, an expression vector having the whole or a part of cDNA coding for an antigenic protein (E protein) on the surface of Japanese encephalitis virus, then culturing the mammalian cells and recovering the expressed antigenic protein.

USE - The antigenic protein (E protein) is used as a vaccine or for an immunological preventive agent or diagnostic agent particularly for use in ELISA, hemagglutination test, hemagglutination inhibition test and complement fixation test, as well as in a variety tests with an antigen or antibody labelled with fluorescent pigment, enzyme, radioactive isotope, etc., to analyze Japanese encephalitis virus with similar antigenicity of the genus flavivirus.

ADVANTAGE - Because the antigenic protein is secreted from transformed mammalian host cells into the culture, its purification is easy in the absence contaminations including the recombinant virus, to assure high safety for the antigenic protein as a vaccine against Japanese encephalitis virus.

The isolation, extraction and purification of the E protein of Japanese encephalitis virus is discussed.